

A B S T R A C T

INERTIAL OSCILLATOR CONTROL SYSTEM

An inertial oscillator control system in which the compound action of coriolis-centrifugal forces generated in a three-body oscillator are harnessed for lifting a gravity payload. The controls consist of a rotary drive method using sliding gear arrangement, a moving platform carrying unbalanced rotating planetary masses, coupling engagement and release mechanism capable of small angular durations less than 90 degrees, and a spring-crank device for platform elevational positioning. A high torque input motor source with speed regulation from a flywheel-governor maintains constant angular velocity. A frame houses the platform which is pivoted above a heavy gravity payload to permit vectoring of thrust unit off from the vertical to provide horizontal thrust components. An additional oscillator configuration has two bodies forming a simpler operation driven by oldham couplers in a paired coaxial arrangement that yields gyroscopic stabilization once the system is in the air.